

**DEPARTMENT OF TRANSPORTATION**

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June 26, 2003

08-SBd-10-R39.4/R63.1  
08-453614  
ACIM-010-2(248)72E

Addendum No. 2

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in SAN BERNARDINO COUNTY IN COLTON, SAN BERNARDINO, LOMA LINDA, REDLANDS AND YUCAIPA FROM 10/215 SEPARATION TO COUNTY LINE ROAD.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on July 17, 2003.

This addendum is being issued to set a new bid opening date as shown herein, and to revise the Notice to Contractors and Special Provisions, the Proposal and Contract, and the Federal Minimum Wages with Modification Number 0 dated 6/13/03.

In the Special Provisions, Section 10-1.215, "ROCK BLANKET (TYPE1)" is added as attached.

In the Special Provisions, Section 10-1.20, "EXISTING HIGHWAY FACILITIES," in subsection "RECONSTRUCT TERMINAL SYSTEM (TYPE ET)," is deleted.

In the Special Provisions, Section 10-1.29, "AR-650 OVERLAY," is revised as attached.

June 26, 2003

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In the Special Provisions, Section 10-1.31, "METAL BEAM GUARD RAILING," the following is added after the third paragraph:

**"TERMINAL SYSTEM (TYPE ET)**

Terminal system (Type ET) shall be furnished and installed as shown on the plans and in conformance with these special provisions.

Terminal system (Type ET) shall be an ET-2000 PLUS (4-tube system) extruder terminal as manufactured by Trinity Industries, Inc., and shall include all the items detailed for terminal system (Type ET) shown on the plans.

Arrangements have been made to insure that any successful bidder can obtain the ET-2000 PLUS (4-tube system) extruder terminal from the manufacturer, Trinity Industries Inc., P.O. Box 99, 950 West 400S, Centerville, UT 84014, Telephone 1-800-772-7976. The price quoted by the manufacturer for the ET-2000 PLUS (4-tube system) extruder terminal, FOB Centerville, Utah is \$1305.00 not including sales tax.

The above price will be firm for orders placed on or before December 31, 2003, provided delivery is accepted within 90 days after the order is placed.

The Contractor shall provide the Engineer with a Certificate of Compliance from the manufacturer in conformance with the provisions in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications. The Certificate of Compliance shall certify that the terminal systems (Type ET) conform to the contract plans and specifications, conform to the prequalified design and material requirements, and were manufactured in conformance with the approved quality control program.

The terminal system (Type ET) shall be installed in conformance with the manufacturer's installation instructions and these requirements. The steel foundation tubes with soil plates attached shall be, at the Contractor's option, either driven, with or without pilot holes, or placed in drilled holes. Space around the steel foundation tubes shall be backfilled with selected earth, free of rock, placed in layers approximately 100 mm thick and each layer shall be moistened and thoroughly compacted. The wood terminal posts shall be inserted into the steel foundation tubes by hand and shall not be driven. Before the wood terminal posts are inserted, the inside surfaces of the steel foundation tubes to receive the wood posts shall be coated with a grease which will not melt or run at a temperature of 65°C or less. The edges of the wood terminal posts may be slightly rounded to facilitate insertion of the post into the steel foundation tubes.

Surplus excavated material remaining after the terminal system (Type ET) has been constructed shall be disposed of in a uniform manner along the adjacent roadway where designated by the Engineer."

In the Proposal and Contract, the Engineer's Estimate Items 11, 32, 33, 35 and 36 are revised, Items 47 and 48 are added and Items 12 and 46 are deleted as attached.

June 26, 2003

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To Proposal and Contract book holders:

Replace the entire Engineer's Estimate in the Proposal with the attached revised Engineer's Estimate. The revised Engineer's Estimate is to be used in the bid.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the proposal.

Submit bids in the Proposal and Contract book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This office is sending this addendum by confirmed facsimile to all book holders to ensure that each receives it. A copy of this addendum and the modified wage rates are available for the contractor's use on the Internet Site:

**[http://www.dot.ca.gov/hq/esc/oe/weekly\\_ads/addendum\\_page.html](http://www.dot.ca.gov/hq/esc/oe/weekly_ads/addendum_page.html)**

If you are not a Proposal and Contract book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,

ORIGINAL SIGNED BY

REBECCA D. HARNAGEL, Chief  
Office of Plans, Specifications & Estimates  
Office Engineer

Attachments

**ENGINEER'S ESTIMATE****08-453614**

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	070012	PROGRESS SCHEDULE (CRITICAL PATH METHOD)	LS	LUMP SUM	LUMP SUM	
2	070018	TIME-RELATED OVERHEAD	WDAY	120		
3	074017	PREPARE WATER POLLUTION CONTROL PROGRAM	LS	LUMP SUM	LUMP SUM	
4	074020	WATER POLLUTION CONTROL	LS	LUMP SUM	LUMP SUM	
5 (S)	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM	
6 (S)	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	
7 (S)	128650	PORTABLE CHANGEABLE MESSAGE SIGN	EA	4		
8	150722	REMOVE PAVEMENT MARKER	LS	LUMP SUM	LUMP SUM	
9	150771	REMOVE ASPHALT CONCRETE DIKE	M	25 000		
10	150820	REMOVE INLET	EA	22		
11	151272	SALVAGE METAL BEAM GUARD RAILING	M	260		
12		BLANK				
13	152320	RESET ROADSIDE SIGN	EA	19		
14 (S)	153153	COLD PLANE ASPHALT CONCRETE PAVEMENT (45 MM MAXIMUM)	M2	109 000		
15	153214	REMOVE CONCRETE CURB	M	1510		
16	153225	PREPARE CONCRETE BRIDGE DECK SURFACE	M2	249		
17	190110	LEAD COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	
18	200114	ROCK BLANKET	M2	4711		
19	260210	AGGREGATE BASE (APPROACH SLAB)	M3	124		
20	374002	ASPHALTIC EMULSION (FOG SEAL COAT)	TONN	8		

# ENGINEER'S ESTIMATE

08-453614

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	390155	ASPHALT CONCRETE (TYPE A)	TONN	13 640		
22	394044	PLACE ASPHALT CONCRETE DIKE (TYPE C)	M	140		
23	394046	PLACE ASPHALT CONCRETE DIKE (TYPE D)	M	7220		
24	394048	PLACE ASPHALT CONCRETE DIKE (TYPE E)	M	16 800		
25	394049	PLACE ASPHALT CONCRETE DIKE (TYPE F)	M	890		
26	397001	ASPHALTIC EMULSION (PAINT BINDER)	TONN	36		
27	401108	REPLACE CONCRETE PAVEMENT (RAPID STRENGTH CONCRETE)	M3	160		
28	404092	SEAL PAVEMENT JOINT	M	34		
29 (S)	420201	GRIND EXISTING CONCRETE PAVEMENT	M2	414 000		
30	510087	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	M3	1225		
31	510502	MINOR CONCRETE (MINOR STRUCTURE)	M3	25		
32	510800	PAVING NOTCH EXTENSION	M3	30		
33 (S)	049388	FURNISH AR-650 POLYMER OVERLAY	LS	LUMP SUM		
34 (S-F)	049389	PLACE AR-650 POLYMER CONCRETE	M2	249		
35 (S)	519117	JOINT SEAL (MR 30 MM)	M	347		
36 (S)	519120	JOINT SEAL (MR 15 MM)	M	129		
37	750001	MISCELLANEOUS IRON AND STEEL	KG	5330		
38 (S)	832001	METAL BEAM GUARD RAILING	M	1030		
39 (S)	839565	TERMINAL SYSTEM (TYPE SRT)	EA	12		
40 (S)	839601	CRASH CUSHION (TYPE CAT)	EA	1		

**ENGINEER'S ESTIMATE**  
**08-453614**

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41 (S)	840515	THERMOPLASTIC PAVEMENT MARKING	M2	24		
42 (S)	840560	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)	M	140 000		
43 (S)	850101	PAVEMENT MARKER (NON-REFLECTIVE)	EA	25 500		
44 (S)	850102	PAVEMENT MARKER (REFLECTIVE)	EA	9500		
45 (S)	861504	MODIFY LIGHTING AND SIGN ILLUMINATION	LS	LUMP SUM	LUMP SUM	
46		BLANK				
47 (S)	839559	TERMINAL SYSTEM (TYPE ET)	EA	8		
48	999990	MOBILIZATION	LS	LUMP SUM		

**TOTAL BID: \_\_\_\_\_**

### **10-1.215 ROCK BLANKET (TYPE 1)**

Rock blanket (Type 1) shall be placed as shown on the plans and in conformance with these special provisions.

#### **MATERIALS**

Rock for the rock blanket (Type 1) shall be clean, smooth rock light to medium gray in color and shall be obtained from a single source.

Rock for the rock blanket (Type 1) shall conform to the following grading:

Screen Size (Millimeters)	Percentage Passing (By Mass)
300x300	100
200x200	0

A sample of the rock shall be submitted to the Engineer for approval prior to delivery of the rock to the project site.

Rock for the rock blanket (Type 1) shall be secured in place with Class 2 concrete conforming to the provisions in Section 90, "Portland Cement Concrete," of the Standard Specifications and these special provisions. Concrete aggregate size shall be ~~19~~10 mm maximum.

Gaps between the rocks shall be filled with dry applied mortar. Mortar shall be thoroughly mixed and shall be one part portland cement and two parts sand by volume. Sand shall be well graded and of a size that passes a 2.4 mm sieve.

#### **SITE PREPARATION**

Prior to beginning rock blanket (Type 1) work, areas to receive the rock blanket (Type 1) shall be cleared in conformance with the provisions in "Roadside Clearing" of these special provisions.

After clearing, the areas shall be excavated to the depth shown on the plans, graded to a smooth uniform surface and compacted to a minimum relative density of 90 percent on slopes of 1:3 or flatter and 85 percent on slopes steeper than 1:3. Excess material shall be removed and disposed of outside the highway right of way in accordance with the provisions specified in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way" of the Standard Specifications.

After compaction, the areas including openings at existing sign posts, fence posts and panel markers shall be sterilized with dichlobenil. The sterilant shall be applied at the maximum label rate and shall not be applied more than 300 mm beyond the rock blanket (Type 1) limits. Soil sterilant shall conform to the provisions in Section 20-4.026, "Pesticides," of the Standard Specifications, except recommendations from a licensed Pest Control Adviser will not be required.

#### **PLACEMENT**

Rock shall be placed while concrete is still plastic, in conjunction with wood headers and metal stakes. The Contractor shall remove concrete adhering to the exposed surfaces of the rock. Loose rocks, shall be reset at the Contractor's expense by methods determined by the Engineer.

Gaps between the rocks shall be filled with dry applied mortar. Water shall be lightly applied to the mortared areas to ensure hydration. Excess mortar shall be removed from the face of the rock.

Wood headers will not be required at locations where rock blanket (Type 1) borders the edge of pavement.

Finished rock blanket (Type 1) surfacing shall be uniform and even as well as maintain original flow lines, slope gradients and contours of the project site.

#### **MEASUREMENT AND PAYMENT**

Rock blanket will be measured by the square meter as determined from actual measurements made parallel to the ground slope.

The contract price paid per square meter for rock blanket shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in placing rock blanket, complete in place, including furnishing and installing or applying wood headers, metal stakes and soil sterilant, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

## 10-1.29 AR-650 OVERLAY

### GENERAL

The AR-650 overlay on the Route 10/38 Separation (Bridge Number 54-0581L) in San Bernardino County shall be the AR-650 overlay system manufactured by Amercrete and shall conform to the instructions provided by Amercrete and to these special provisions.

A technical representative from the material manufacturer shall be present during the overlay application.

The AR-650 overlay materials can be obtained from Amercrete 1-800-775-8880.

The price quoted by Amercrete for overlay materials is \$45.00 a bag, and \$300 per day, including expenses, for the manufacturer's technical representative. The FOB location is 41769 Enterprise Circle North, Temecula, CA 92590. These prices do not include sales tax or shipping and handling to Temecula. The above prices will be firm for all orders placed on or before June 30, 2004.

Before starting deck overlay work on the project, the Contractor shall submit for approval by the Engineer, a program for public safety associated with the use of AR-650 overlay materials during the construction of the project. This program shall identify materials, equipment, and methods to be used. The Contractor shall not perform any deck overlay work on the project, other than that specifically authorized in writing by the Engineer, until the program has been approved.

If the measures being taken by the Contractor are inadequate to provide for public safety associated with the use of AR-650 overlay materials, the Engineer will direct the Contractor to revise the operations and public safety program. These directions will be in writing and will specify the items of work for which the Contractor's program for public safety associated with the use of AR-650 overlay materials is inadequate. No further work shall be performed on these items until the public safety measures are adequate, and if required, a revised program for public safety associated with the use of AR-650 overlay materials has been approved.

The Engineer will notify the Contractor in writing of the approval or rejection of any submitted or revised program for public safety associated with the use of AR-650 overlay materials in not more than 10 working days following submittal.

The State will not be liable to the Contractor for failure to approve all or any portion of an originally submitted or revised program for public safety associated with the use of AR-650 overlay materials, nor for any delays to the work due to the Contractor's failure to submit an acceptable program for public safety associated with the use of AR-650 overlay materials.

Surface preparation shall be as specified in "Prepare Concrete Bridge Deck Surface" of these special provisions.

A Material Safety Data Sheet shall be furnished to the Engineer prior to use for each shipment of AR-650 overlay materials.

If bulk resin is to be used, the Contractor shall notify the Engineer in writing 10 days prior to the delivery of the bulk resin to the jobsite. Bulk resin is any resin that is stored in containers in excess of 209 liters.

Prior to constructing the overlay, one or more trial overlays shall be placed on a previously constructed concrete base to determine the initial set time and to demonstrate the effectiveness of the mixing, placing, and finishing equipment proposed. Each trial overlay shall be 3.6-m wide, at least 1.8-m long, and the same thickness as the overlay to be constructed. Conditions during the construction of the trial overlays and equipment used shall be similar to those expected and those to be used for the construction of the AR-650 overlay.

All materials used in the trial overlays, including the concrete base, shall become the property of the Contractor and shall be removed and disposed of in conformance with the provisions in Section 7-1.13, "Disposal of Material Outside the Right of Way," of the Standard Specifications.

Expansion joints shall be adequately isolated prior to overlaying or may be sawed after overlay placement, as recommended by the manufacturer and approved by the Engineer. The exact time of sawing will be determined by the Engineer.

The finishing equipment used shall strike off the AR-650 to the established grade and cross section. Finishing equipment shall be fitted with vibrators or other means of consolidating the AR-650 to the required compaction.

The finished surface of the AR-650 overlay shall conform to the provisions in Section 51-1.17, "Finishing Bridge Decks," of the Standard Specifications and these special provisions.

The surface texture of AR-650 overlay surfaces shall be uniform and shall have a coefficient of friction of not less than 0.35 as measured by California Test 342

The minimum time following final finishing before traffic and equipment is permitted on the overlay shall be as recommended by the manufacturer.



## **MEASUREMENT AND PAYMENT**

The contract lump sum price paid for furnish AR-650 overlay materials shall include full compensation for furnishing all labor, materials (including aggregate), tools, equipment, and incidentals, and for doing all the work involved in furnishing AR-650 overlay materials, including shipping and handling from the manufacturer's plant, and the price per day and expenses for the technical representative, as shown on the plans, as specified in these special provisions, and as directed by the Engineer.

Place AR-650 overlay will be measured by the square meter. The area to be paid for will be based on the dimensions shown on the plans.

The contract price paid per square meter for place AR-650 overlay shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in constructing the AR-650 overlay, complete in place, including furnishing, constructing, and disposing of trial overlays and base, as shown on the plans and these special provisions, and as directed by the Engineer.

Full compensation for compliance with the requirements for a program for public safety associated with use of AR-650 overlay materials shall be considered as included in the contract prices paid for the items of work involving AR-650 overlay and no additional compensation will be allowed therefor.